

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P158483

Luminaire Tested: **VST-F08-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158483
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F08-LED-E-U-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16815.7 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



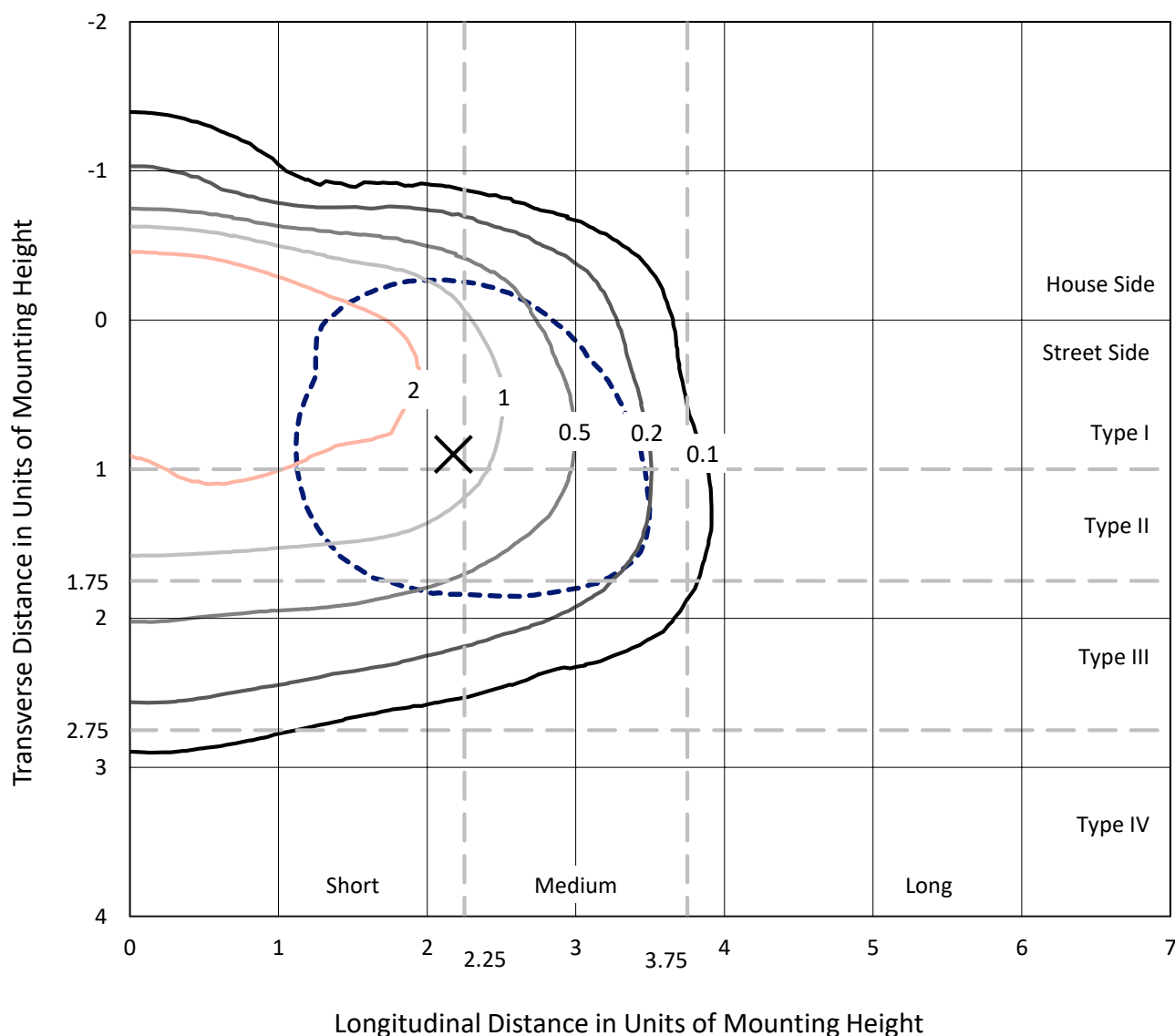
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

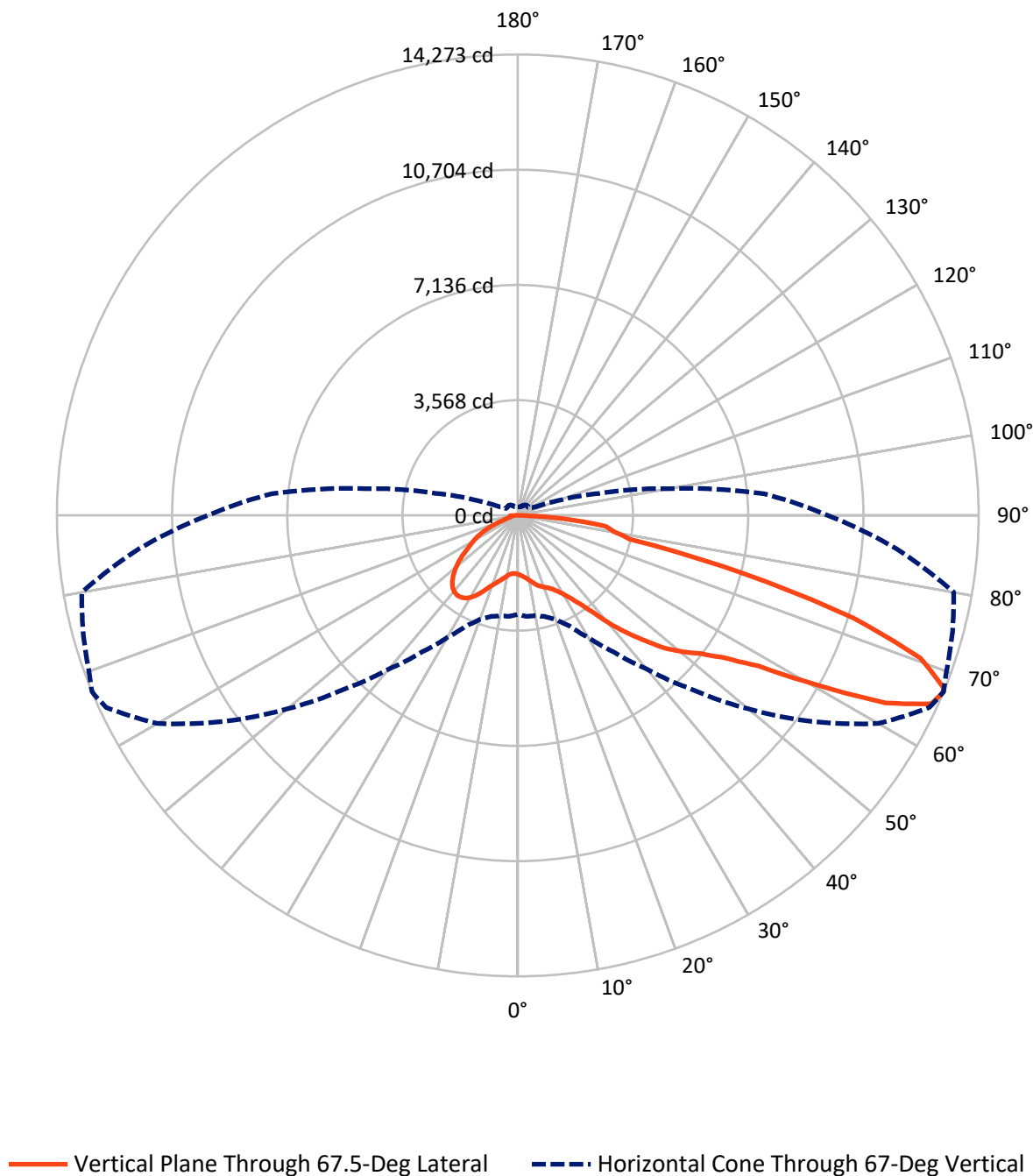


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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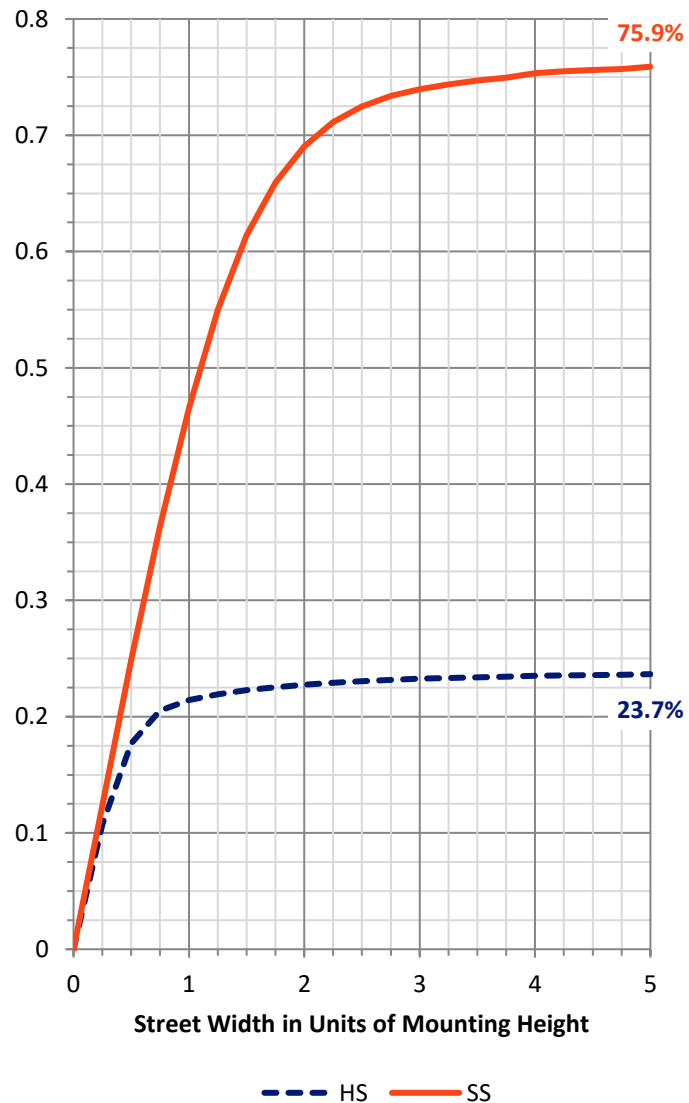
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4034.1	0.0	4034.1
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	12781.6	0.0	12781.6
	% Fixture	76.0	0.0	76.0
Total	Lumens	16815.7	0.0	16815.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.1
10°-20°	617.2	3.7
20°-30°	1101.9	6.6
30°-40°	1614.8	9.6
40°-50°	2495.2	14.8
50°-60°	3633.4	21.6
60°-70°	4733.1	28.1
70°-80°	2118.7	12.6
80°-90°	320.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16815.7	100.0
0°-180°	16815.7	100.0

Coefficient of Utilization



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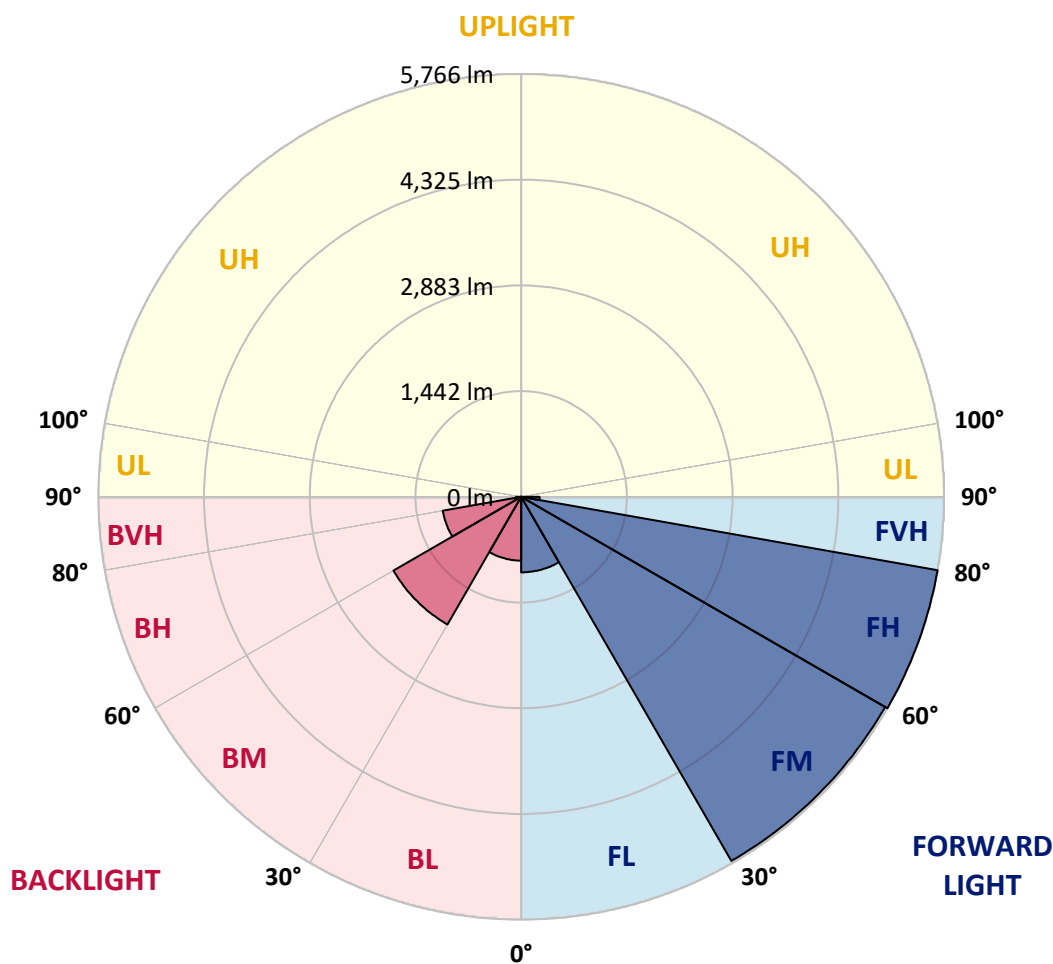
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.3	6.1			
FM	(30°-60°)	5733.3	34.1			
FH	(60°-80°)	5766.4	34.3			G3/7500
FVH	(80°-90°)	251.6	1.5			G3/500
BL	(0°-30°)	869.9	5.2	B2/1000		
BM	(30°-60°)	2010.1	12.0	B2/2500		
BH	(60°-80°)	1085.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	68.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7
2.5°	1894.0	1898.5	1899.6	1898.5	1899.6	1895.1	1894.0	1887.3	1890.7	1881.7	1879.5
5°	1996.6	1999.9	2002.1	1993.2	1995.5	1991.0	1985.4	1978.7	1969.8	1957.5	1949.7
7.5°	2096.9	2102.5	2101.4	2098.0	2090.2	2085.7	2074.6	2064.6	2049.0	2034.5	2024.4
10°	2231.8	2230.7	2230.7	2211.7	2200.6	2190.5	2170.5	2154.9	2139.3	2118.1	2106.9
12.5°	2387.9	2380.0	2376.7	2363.3	2339.9	2322.1	2293.1	2263.0	2235.1	2212.8	2195.0
15°	2538.3	2538.3	2529.4	2508.2	2486.0	2462.5	2421.3	2377.8	2332.1	2296.4	2278.6
17.5°	2675.5	2663.2	2655.4	2627.5	2604.1	2566.2	2520.5	2473.7	2416.8	2366.7	2332.1
20°	2775.8	2765.8	2749.0	2714.5	2674.3	2629.8	2576.2	2521.6	2460.3	2405.7	2366.7
22.5°	2833.8	2821.5	2795.9	2750.2	2695.5	2633.1	2570.7	2519.4	2463.7	2422.4	2390.1
25°	2863.9	2851.6	2817.0	2756.8	2683.3	2600.8	2529.4	2479.3	2446.9	2436.9	2432.4
27.5°	2862.7	2852.7	2815.9	2746.8	2652.1	2557.3	2480.4	2438.0	2434.7	2473.7	2502.7
30°	2833.8	2827.1	2793.6	2724.5	2625.3	2526.1	2454.7	2432.4	2467.0	2549.5	2620.8
32.5°	2804.8	2801.4	2778.0	2715.6	2630.9	2547.3	2498.2	2500.4	2571.8	2698.9	2813.7
35°	2808.1	2812.6	2809.2	2775.8	2722.3	2678.8	2655.4	2704.4	2815.9	2969.8	3123.6
37.5°	2837.1	2853.8	2875.0	2878.4	2879.5	2872.8	2921.8	3025.5	3188.3	3388.9	3629.7
40°	2900.6	2919.6	2980.9	3034.4	3103.5	3186.0	3285.2	3429.1	3630.8	3878.3	4173.7
42.5°	3098.0	3124.7	3200.5	3299.7	3426.8	3556.1	3704.4	3900.6	4148.1	4408.9	4718.9
45°	3355.5	3411.2	3494.8	3605.2	3795.8	3977.5	4169.3	4388.9	4652.0	4978.6	5290.7
47.5°	3676.5	3732.3	3853.8	3972.0	4197.1	4423.4	4633.0	4862.7	5148.0	5482.5	5828.1
50°	3957.5	4021.0	4129.1	4288.5	4549.4	4827.0	5058.9	5307.5	5547.1	5899.4	6248.3
52.5°	4178.2	4223.9	4327.6	4473.6	4764.6	5068.9	5362.1	5638.5	5922.8	6275.1	6598.4
55°	4206.1	4248.4	4349.9	4517.1	4812.5	5150.3	5488.0	5815.8	6218.2	6602.8	7030.9
57.5°	4085.7	4120.2	4222.8	4372.2	4659.8	5044.4	5471.3	5891.6	6406.6	6926.1	7448.9
60°	3915.1	3949.7	4029.9	4149.2	4408.9	4823.6	5321.9	5897.2	6581.6	7331.9	8101.1
62.5°	3727.8	3757.9	3822.6	3907.3	4135.8	4518.2	5089.0	5860.4	6724.3	7735.4	8921.6
65°	3412.3	3484.8	3512.7	3599.6	3828.1	4189.3	4770.1	5611.8	6666.4	7914.9	9436.6
67°	3063.4	3137.0	3151.5	3239.5	3422.4	3769.1	4359.9	5151.4	6207.1	7605.0	9322.9
67.5°	2951.9	3014.4	3036.7	3124.7	3297.5	3624.1	4184.9	4985.3	6066.6	7435.6	9185.8
70°	2170.5	2239.6	2264.1	2300.9	2424.6	2696.6	3067.9	3762.4	4837.0	6067.7	7748.8
72.5°	1161.6	1217.3	1240.7	1295.4	1358.9	1507.2	1791.4	2289.8	2968.7	4060.0	5512.6
75°	785.9	808.2	824.9	862.8	928.6	1046.8	1171.6	1346.7	1756.9	2290.9	3137.0
77.5°	448.1	458.2	460.4	467.1	519.5	632.1	837.2	1133.7	1453.7	1659.9	2006.6
80°	194.0	214.0	229.6	219.6	216.3	239.7	299.9	447.0	876.2	1391.2	1651.0
82.5°	104.8	113.7	127.1	128.2	134.9	142.7	155.0	183.9	258.6	521.7	1138.2
85°	54.6	56.9	75.8	87.0	92.5	97.0	99.2	110.4	127.1	161.6	283.2
87.5°	7.8	11.1	13.4	17.8	20.1	21.2	24.5	31.2	36.8	44.6	75.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7
2.5°	1869.5	1867.3	1860.6	1856.1	1851.6	1847.2	1841.6	1837.2	1829.3	1823.8	1817.1
5°	1938.6	1925.2	1916.3	1904.0	1901.8	1887.3	1872.8	1866.1	1852.8	1841.6	1828.2
7.5°	2008.8	1993.2	1978.7	1968.7	1963.1	1943.1	1928.6	1911.8	1896.2	1881.7	1866.1
10°	2091.3	2075.7	2060.1	2053.4	2043.4	2024.4	2012.2	1991.0	1975.4	1957.5	1936.4
12.5°	2177.2	2166.0	2154.9	2145.9	2141.5	2132.6	2114.7	2096.9	2075.7	2057.9	2033.4
15°	2253.0	2245.2	2240.7	2238.5	2238.5	2232.9	2216.2	2199.5	2177.2	2157.1	2130.3
17.5°	2306.5	2303.1	2306.5	2309.8	2314.3	2309.8	2306.5	2287.5	2273.0	2248.5	2221.8
20°	2337.7	2344.4	2361.1	2372.2	2382.3	2390.1	2393.4	2377.8	2358.9	2341.0	2323.2
22.5°	2371.1	2390.1	2419.1	2435.8	2452.5	2480.4	2487.1	2475.9	2461.4	2450.3	2431.3
25°	2426.9	2454.7	2504.9	2531.7	2555.1	2596.3	2601.9	2604.1	2600.8	2591.9	2568.4
27.5°	2513.8	2568.4	2635.3	2669.9	2695.5	2749.0	2770.2	2770.2	2761.3	2771.3	2771.3
30°	2665.4	2737.9	2824.8	2844.9	2885.0	2931.9	2966.4	2970.9	2972.0	2993.2	3024.4
32.5°	2898.4	2967.5	3064.5	3086.8	3121.4	3166.0	3205.0	3200.5	3210.6	3256.3	3297.5
35°	3237.3	3307.5	3371.1	3401.2	3416.8	3456.9	3471.4	3495.9	3526.0	3582.9	3577.3
37.5°	3739.0	3801.4	3810.3	3829.3	3810.3	3818.1	3829.3	3858.2	3938.5	3989.8	3907.3
40°	4343.2	4446.8	4436.8	4414.5	4372.2	4315.3	4335.4	4380.0	4466.9	4422.3	4200.5
42.5°	4912.8	5019.8	4999.8	4974.1	4880.5	4859.3	4857.1	4893.9	4940.7	4813.6	4430.1
45°	5473.6	5582.8	5548.2	5533.8	5471.3	5425.6	5463.5	5465.8	5453.5	5181.5	4630.8
47.5°	6052.1	6152.5	6130.2	6142.4	6077.8	6047.7	6051.0	6035.4	5920.6	5493.6	4786.9
50°	6519.2	6654.1	6667.5	6639.6	6605.1	6559.3	6676.4	6634.0	6378.8	5796.8	4937.3
52.5°	6882.6	7064.3	7133.5	7115.6	7087.8	7093.3	7312.9	7360.9	6938.4	6179.2	5103.4
55°	7312.9	7599.4	7712.0	7778.9	7749.9	7861.4	8364.2	8388.7	7716.5	6678.6	5319.7
57.5°	7933.9	8344.1	8699.7	8794.5	8885.9	9248.2	10064.2	9815.6	8726.5	7434.4	5594.0
60°	8878.1	9776.6	10354.0	10657.3	10871.3	11377.4	12153.3	11523.4	9985.1	8334.1	5938.4
62.5°	10200.2	11513.4	12478.8	12783.1	12871.2	13162.2	13724.0	12518.9	10670.6	8737.6	5968.5
65°	11184.6	12759.7	13915.8	14071.8	13967.0	13972.6	14119.8	12466.5	10415.4	8385.4	5451.3
67°	11119.9	12883.5	14067.4	14272.5	14127.6	13936.9	13707.3	11756.4	9594.9	7647.4	4773.5
67.5°	11020.7	12764.2	14001.6	14217.9	14085.2	13867.8	13532.3	11481.1	9339.6	7417.7	4635.2
70°	9526.9	11258.1	12924.7	13229.1	13284.8	13086.4	12144.4	9680.7	7582.7	6034.3	3599.6
72.5°	7415.5	8957.2	10606.0	10870.2	11084.2	10512.3	8839.1	6686.4	5527.1	4348.7	2606.3
75°	4896.1	6464.6	7296.2	7335.2	7062.1	6003.1	4318.6	3348.8	3082.4	2556.2	1613.1
77.5°	2619.7	3801.4	3824.8	3541.6	3412.3	2543.9	1032.3	569.7	634.3	720.1	642.1
80°	1954.2	2421.3	2805.9	3016.6	3079.0	2181.6	534.0	302.1	264.2	240.8	237.4
82.5°	1762.5	2338.8	2622.0	2736.8	2707.8	1794.8	299.9	202.9	168.3	182.8	208.5
85°	691.2	1248.6	1642.1	1589.7	1335.5	668.9	163.9	109.2	109.2	158.3	205.1
87.5°	141.6	256.4	347.8	332.2	298.8	129.3	80.3	65.8	66.9	128.2	194.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7	1822.7
2.5°	1810.4	1803.7	1799.2	1794.8	1790.3	1788.1	1784.8	1784.8	1778.1	1775.8	1773.6
5°	1818.2	1807.1	1799.2	1789.2	1781.4	1774.7	1765.8	1763.6	1755.8	1750.2	1748.0
7.5°	1851.6	1834.9	1818.2	1805.9	1794.8	1780.3	1770.3	1761.3	1753.5	1748.0	1741.3
10°	1915.2	1897.4	1873.9	1851.6	1837.2	1814.9	1799.2	1783.6	1774.7	1768.0	1759.1
12.5°	2008.8	1983.2	1955.3	1928.6	1904.0	1875.1	1859.4	1840.5	1829.3	1823.8	1817.1
15°	2104.7	2076.8	2042.3	2016.6	1988.8	1966.5	1952.0	1935.3	1926.3	1919.6	1915.2
17.5°	2202.8	2170.5	2145.9	2120.3	2106.9	2090.2	2071.3	2050.1	2024.4	2008.8	1987.6
20°	2303.1	2278.6	2264.1	2249.6	2234.0	2210.6	2172.7	2129.2	2081.3	2035.6	1992.1
22.5°	2420.2	2405.7	2403.5	2390.1	2357.8	2302.0	2231.8	2150.4	2069.0	1993.2	1934.1
25°	2585.2	2585.2	2574.0	2519.4	2443.6	2343.3	2225.1	2108.0	1999.9	1896.2	1818.2
27.5°	2792.5	2784.7	2730.1	2617.5	2481.5	2325.4	2167.1	2018.9	1880.6	1766.9	1666.6
30°	3021.0	2966.4	2849.4	2672.1	2468.1	2267.5	2073.5	1901.8	1739.1	1599.7	1481.5
32.5°	3258.5	3125.8	2915.1	2672.1	2421.3	2180.5	1956.4	1745.7	1559.6	1403.5	1263.0
35°	3473.6	3231.7	2930.7	2628.6	2329.9	2052.3	1792.6	1554.0	1331.0	1162.7	1008.9
37.5°	3668.7	3302.0	2914.0	2543.9	2197.2	1871.7	1567.4	1304.3	1052.3	889.6	758.0
40°	3795.8	3316.5	2844.9	2411.3	2007.7	1627.6	1290.9	996.6	797.1	648.8	560.7
42.5°	3875.0	3288.6	2733.4	2229.6	1752.4	1321.0	968.7	714.6	566.3	483.8	450.4
45°	3919.6	3216.1	2568.4	1981.0	1443.6	1004.4	687.8	516.1	435.9	406.9	395.7
47.5°	3917.3	3099.1	2362.2	1693.3	1102.5	700.1	487.2	402.4	380.1	371.2	369.0
50°	3893.9	2955.3	2120.3	1381.2	796.0	488.3	385.7	361.2	355.6	350.0	347.8
52.5°	3861.6	2776.9	1852.8	1076.9	565.2	390.2	350.0	343.4	338.9	333.3	331.1
55°	3801.4	2557.3	1562.9	810.4	442.6	352.3	337.8	335.5	330.0	322.2	317.7
57.5°	3727.8	2334.3	1285.3	633.2	391.3	343.4	335.5	332.2	324.4	315.5	306.6
60°	3701.1	2150.4	1068.0	534.0	379.0	346.7	341.1	336.7	325.5	312.1	302.1
62.5°	3533.8	1943.1	911.9	495.0	385.7	361.2	359.0	352.3	335.5	319.9	304.3
65°	3101.3	1643.2	772.5	468.2	399.1	385.7	387.9	377.9	361.2	340.0	312.1
67°	2623.1	1340.0	643.2	442.6	409.1	411.4	419.2	411.4	390.2	360.1	322.2
67.5°	2496.0	1263.0	610.9	434.8	411.4	418.0	427.0	421.4	400.2	365.6	326.6
70°	1855.0	889.6	455.9	393.5	411.4	438.1	458.2	463.7	440.3	392.4	335.5
72.5°	1306.5	574.1	350.0	341.1	373.5	409.1	447.0	466.0	439.2	386.8	323.3
75°	784.8	359.0	284.3	289.8	314.4	351.2	381.3	389.1	355.6	322.2	279.8
77.5°	363.4	238.6	223.0	230.8	254.2	270.9	270.9	255.3	229.6	209.6	200.7
80°	214.0	195.1	194.0	208.5	224.1	211.8	192.9	171.7	158.3	151.6	148.3
82.5°	200.7	208.5	221.8	225.2	212.9	182.8	159.4	138.2	131.5	128.2	124.9
85°	236.3	253.1	230.8	212.9	188.4	153.8	124.9	107.0	103.7	100.3	95.9
87.5°	218.5	208.5	181.7	156.1	129.3	93.6	68.0	61.3	65.8	64.7	62.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1822.7	1822.7	1822.7	1822.7	1822.7
2.5°	1774.7	1774.7	1770.3	1768.0	1773.6
5°	1743.5	1744.6	1741.3	1740.2	1741.3
7.5°	1736.8	1735.7	1733.5	1731.2	1733.5
10°	1756.9	1755.8	1752.4	1754.7	1751.3
12.5°	1817.1	1823.8	1822.7	1824.9	1829.3
15°	1915.2	1914.1	1910.7	1913.0	1916.3
17.5°	1970.9	1962.0	1954.2	1950.9	1950.9
20°	1957.5	1931.9	1918.5	1910.7	1908.5
22.5°	1878.4	1841.6	1813.7	1807.1	1801.5
25°	1749.1	1703.4	1667.7	1659.9	1645.4
27.5°	1598.6	1537.3	1494.9	1486.0	1478.2
30°	1401.3	1331.0	1282.0	1250.8	1260.8
32.5°	1160.5	1093.6	1036.7	986.6	978.8
35°	896.3	822.7	772.5	750.2	735.8
37.5°	668.9	607.6	574.1	552.9	554.0
40°	511.7	479.4	461.5	447.0	448.1
42.5°	427.0	412.5	408.0	401.3	398.0
45°	386.8	382.4	383.5	376.8	374.6
47.5°	364.5	361.2	362.3	357.8	356.7
50°	346.7	344.5	345.6	342.2	341.1
52.5°	328.9	330.0	328.9	326.6	326.6
55°	313.3	312.1	314.4	311.0	311.0
57.5°	301.0	299.9	299.9	298.8	298.8
60°	294.3	289.8	288.7	288.7	289.8
62.5°	291.0	283.2	282.0	282.0	283.2
65°	292.1	279.8	275.3	274.2	273.1
67°	293.2	275.3	266.4	262.0	260.9
67.5°	294.3	273.1	263.1	258.6	256.4
70°	287.6	257.5	243.0	235.2	233.0
72.5°	270.9	238.6	220.7	210.7	208.5
75°	240.8	216.3	200.7	189.5	185.1
77.5°	186.2	175.0	169.4	162.8	160.5
80°	144.9	139.3	137.1	132.7	131.5
82.5°	120.4	114.8	111.5	105.9	102.6
85°	93.6	87.0	84.7	80.3	78.0
87.5°	61.3	58.0	56.9	51.3	49.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)